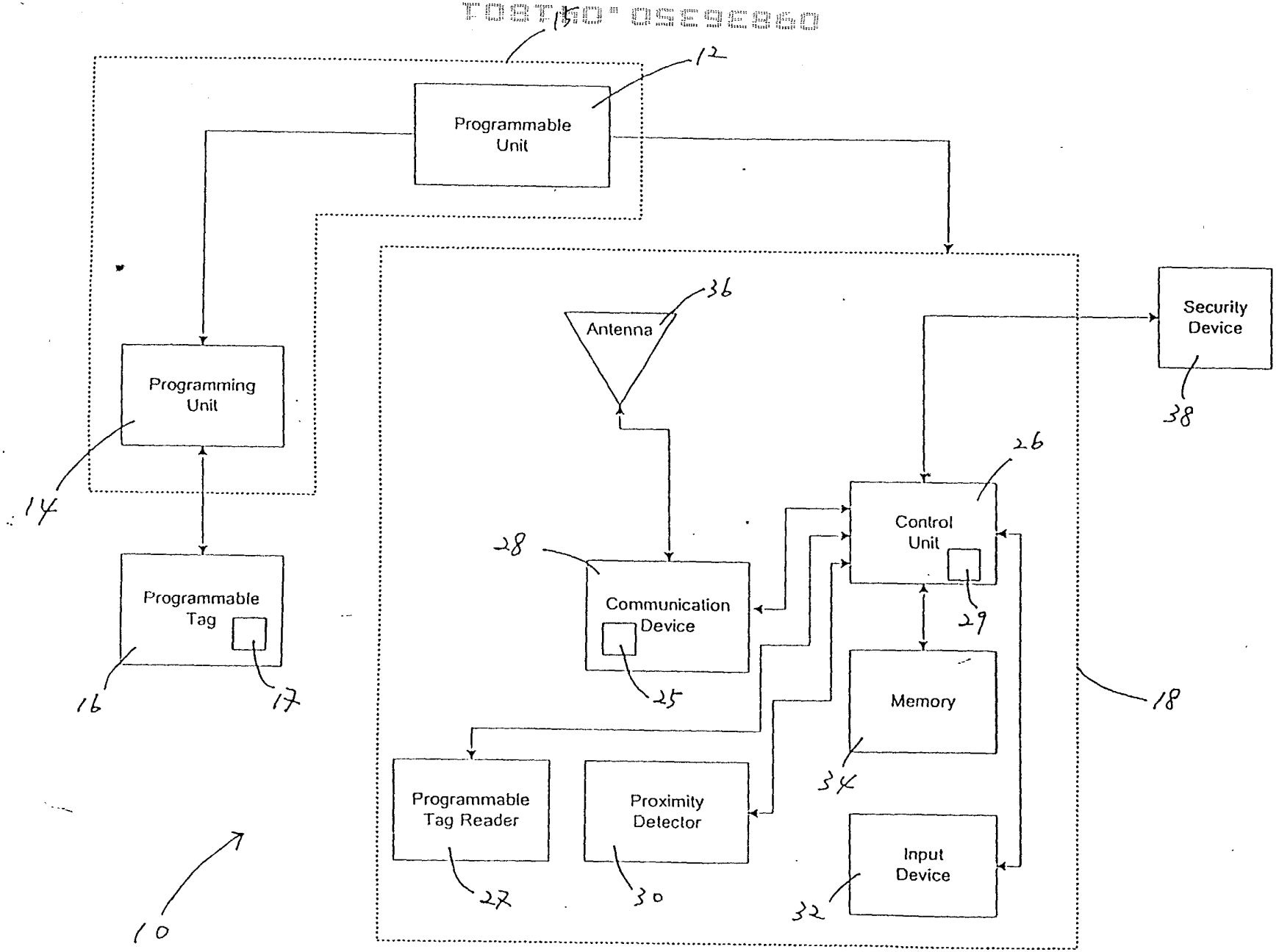
Programmable Unit
Programming Unit
Programmable Tag
Antenna
Security Device
Control Unit
Communication Device
Memory
Programmable Tag Reader
Proximity Detector
Input Device
10
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Fig. 1

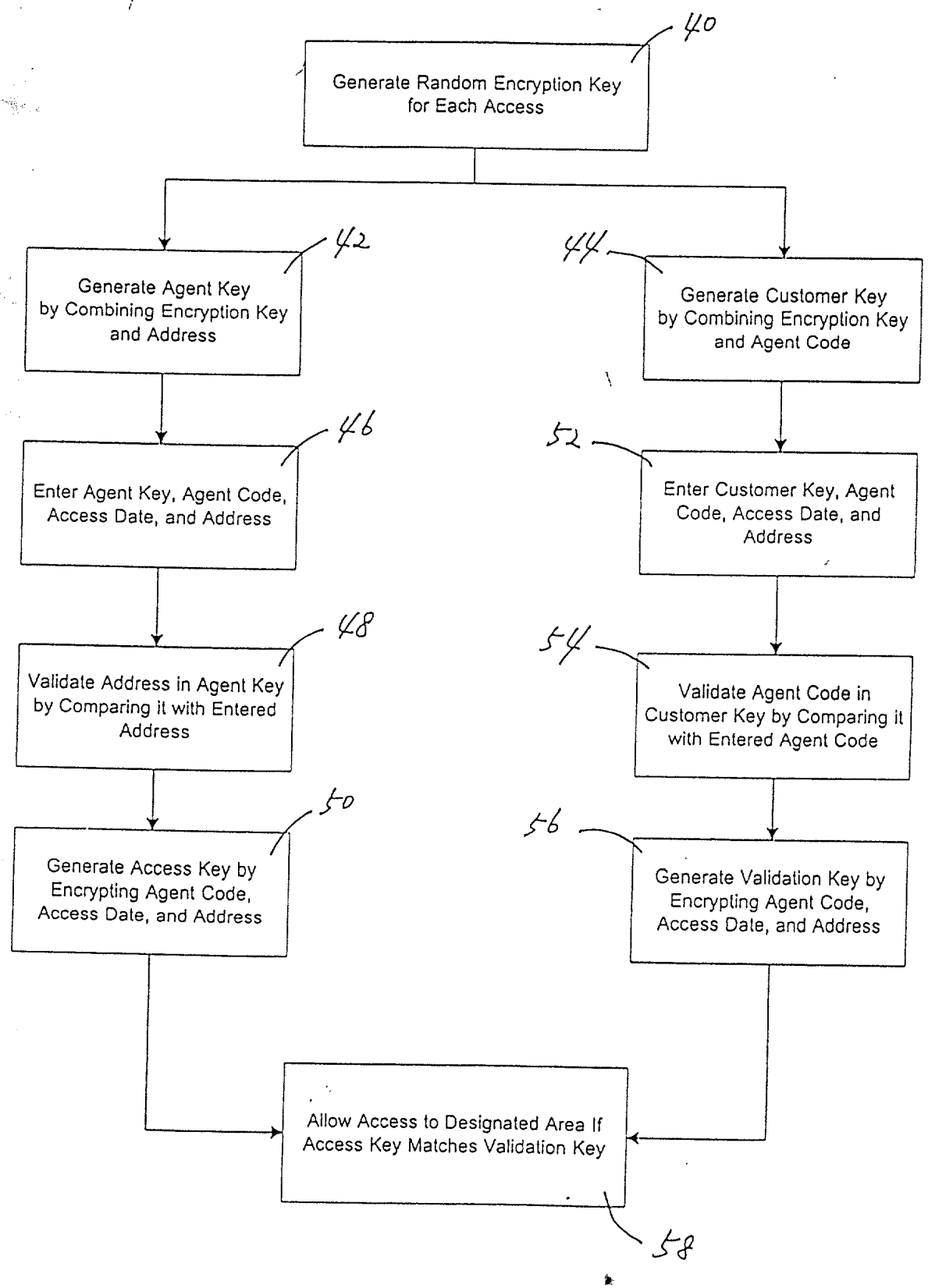
40
Generate Random Encryption Key for Each Access
42
Generate Agent Key by Combining Encryption Key and Address
44
Generate Customer Key by Combining Encryption Key and Agent Code
46
Enter Agent Key, Agent Code, Access Date, and Address
52
Enter Customer Key, Agent Code, Access Date, and Address
48
Validate Address in Agent Key by Comparing it with Entered Address
54
Validate Agent Code in Customer Key by Comparing it with Entered Agent Code
50
Generate Access Key by Encrypting Agent Code, Access Date, and Address
56
Generate Validation Key by Encrypting Agent Code, Access Date, and Address
Allow Access to Designated Area If Access Key Matches Validation Key
58

Fig. 2

Encryption Key = 065

Agent Key = 18818

Julian Delivery Date = 039

Address of Designated Area = 4215

Agent

Agent Key = 065 + 4215

Access Key = 065 (18818 + 039 + 4215)

Customer

Customer Key = 065 + 18818

Validation Key = 065 (18818 + 039 + 4215)

Fig. 3